

### **ABSTRACT OF THE DISCLOSURE**

A method of determining one or more color characteristics of a colored microsphere comprising: providing a microarray of microspheres, at least one of which has a color characteristic; capturing the microarray with an  
5 electronic color image sensor assembly having a matrix of pixels to produce an electronic microarray image; detecting the location of a microsphere within the captured microarray image; and identifying a color characteristic of the detected microsphere.